

Please add the following newly drafted Claims 39-51.

Sub 1
B2 2 3
39. A storage method used by instruction storing means that stores a virtual machine instruction sequence to be executed by a virtual machine under control of a real machine, wherein the storage method results in:

4 the instruction storing means being a plurality of instruction blocks that constitute the

5 virtual machine instruction sequence, the instruction blocks corresponding to basic blocks;

6 the instruction blocks each including:

7 an identifier area for storing an identifier that specifies a start position of the instruction

8 block in the instruction storing means;

9 a non-branch instruction area for storing non-branch instructions belonging to the

10 corresponding basic block; and

11 a branch instruction area for storing at least one branch instructions belonging to the

12 corresponding basic block.

1 40. A storage method of Claim 39,

2 wherein the identifier of the instruction block is an address related information in

3 the virtual machine instruction sequence.

1 41. A storage method of Claim 40,

2 wherein the address related information is one of absolute address, relative

3 address, and offset address.

1 42. A storage method Claim 40,
2 wherein whether each virtual machine instruction is positioned at a start position
3 of the basic block is indicated by an address in the virtual machine instruction sequence to which
4 the virtual machine instruction is allocated;
5 a virtual machine instruction at the start position of the basic block being allocated
6 to a specific address in the virtual machine instruction sequence, and
7 a virtual machine instruction at other than the start position of the basic block
8 being allocated to an address other than the specific address.

1 43. A storage method of Claim 40,
2 wherein virtual machine instructions of the virtual machine instruction sequence
3 each comprises:
4 an identifying unit for storing identification information which indicates if the
5 virtual machine instruction is positioned at a start position of the basic block; and
6 an operation specifying unit for specifying an operation to be executed by the
7 virtual machine.

1 44. A storage method of Claim 40,
2 wherein the instruction storing means comprises:
3 the basic blocks; and
4 identification tags, each designates an address related information of the virtual
5 machine instruction at a start position of the basic block; attachment of the tag indicating if the
6 virtual machine instruction corresponding to the identification tag is positioned at the start
7 position of the basic block.

1 45. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 30.

1 46. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 39.

1 47. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 40.

1 48. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 41.

1 49. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 42.

1 50. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 43.

1 51. A computer-readable recording medium for recording a program that enables a
2 computer to carry out the storage method according to Claim 44.